

Securing E-Government *Network Security Update*



June 19, 2002

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Securing E-Government *Overview*

- Understanding the Threat
 - Why security?
- Highlights
 - What have we accomplished?
- Next Steps
 - Where are we headed?

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The Threat – “From the Headlines”

**Ford Credit warns customers
about identity theft**

DEARBORN, Mich. (AP)
05/16/2002 - Updated 01:02 PM ET

**Security Firm Maps CIA's
Network with tools freely
available on the Internet**

-- by George V. Hulme

**Hackers access information on California state
employees**

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State Dept. virus exposes system flaw

Anyone could have sent messages to U.S. travel warning list

[By Bob Sullivan](#) MSNBC

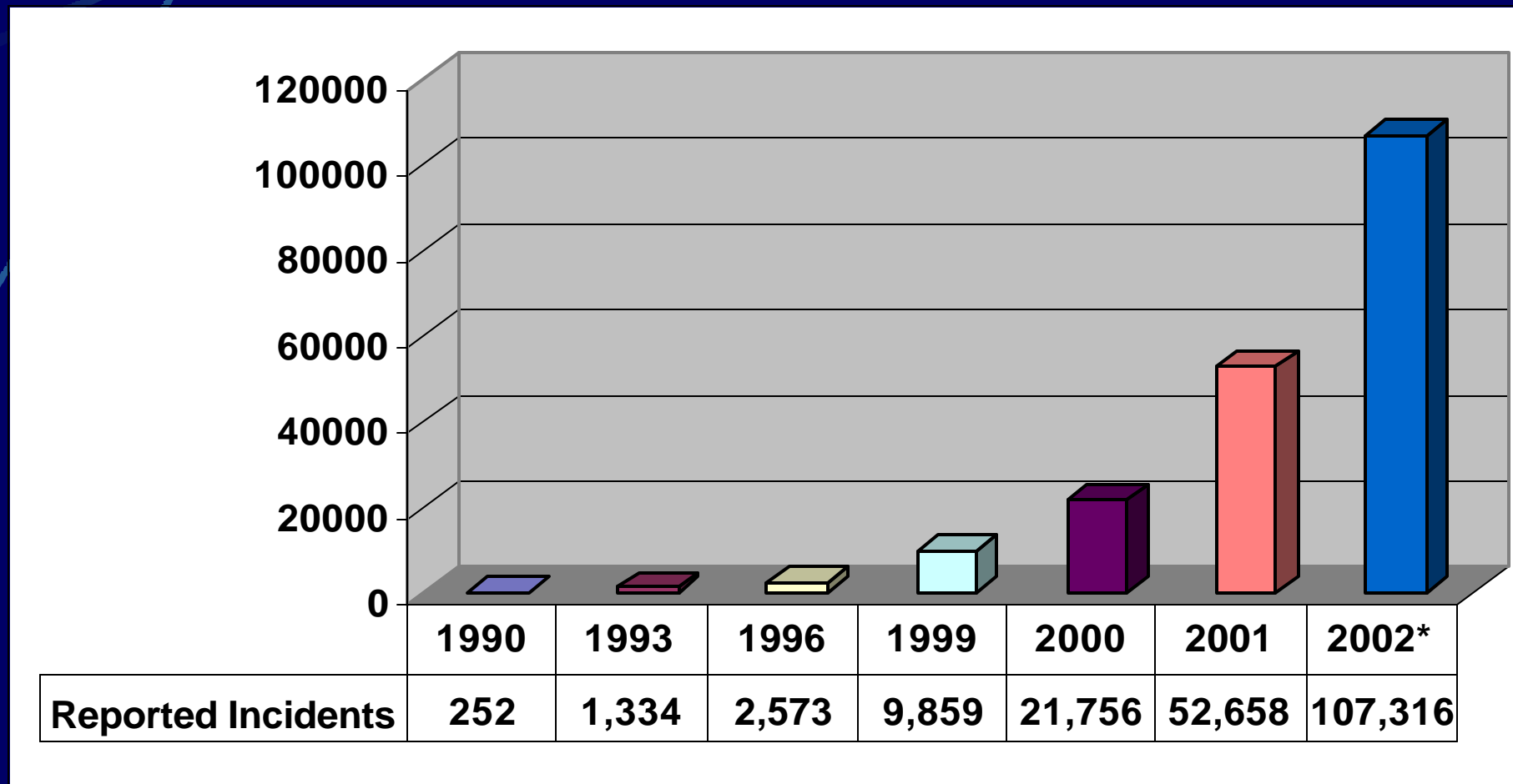
Worm targets Microsoft SQL Server

By James Niccolai

IDG News Service, 05/21/02

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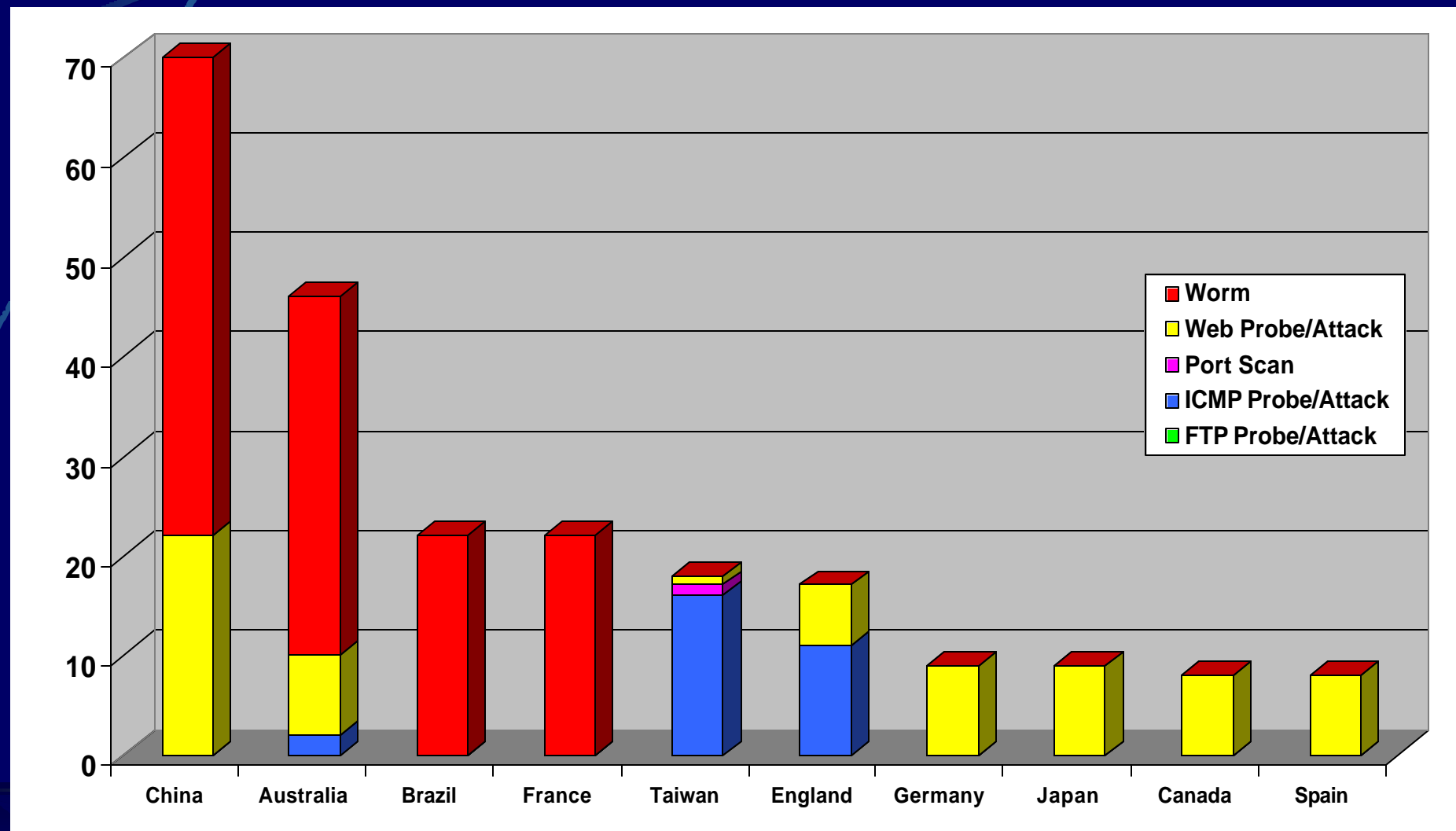
The Threat – Reported Incidents (CERT)



Statistics provided by Carnegie Mellon Computer Emergency Response Team (CERT/CC)
(2002: Based on 1st Qtr Estimates)*

Threat Picture – State of Idaho's Network

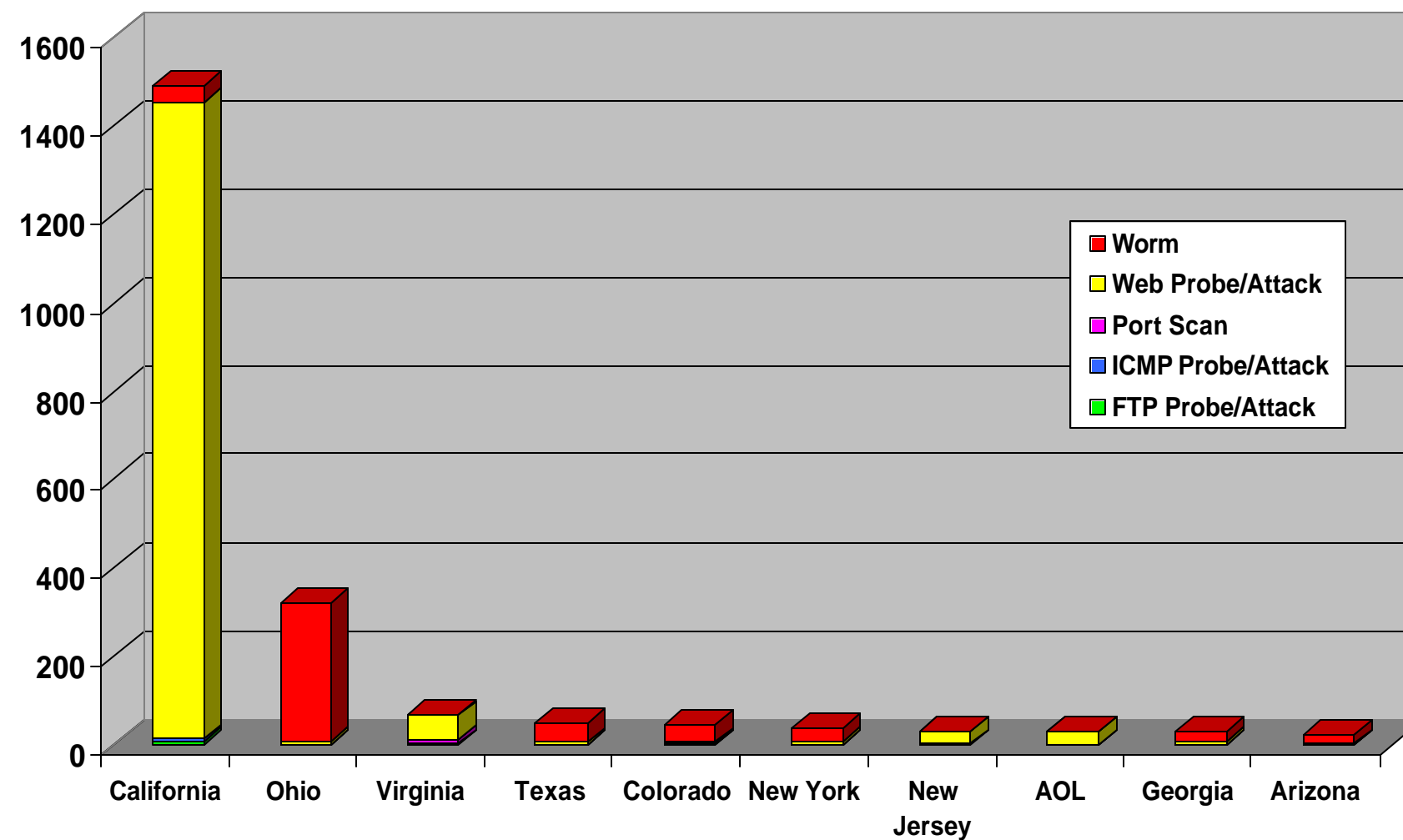
252 Overseas Attacks/Probes in 3 days



Top 10 Overseas Attack Sites – June 1 through June 3 (3 DAYS)

Threat Picture – State of Idaho's Network

2,220 U.S. Attacks/Probes in 3 days



Top 10 U.S. Attack Sites – June 1 through June 3 (3 DAYS)

Our Security Philosophy

- Defense in Depth

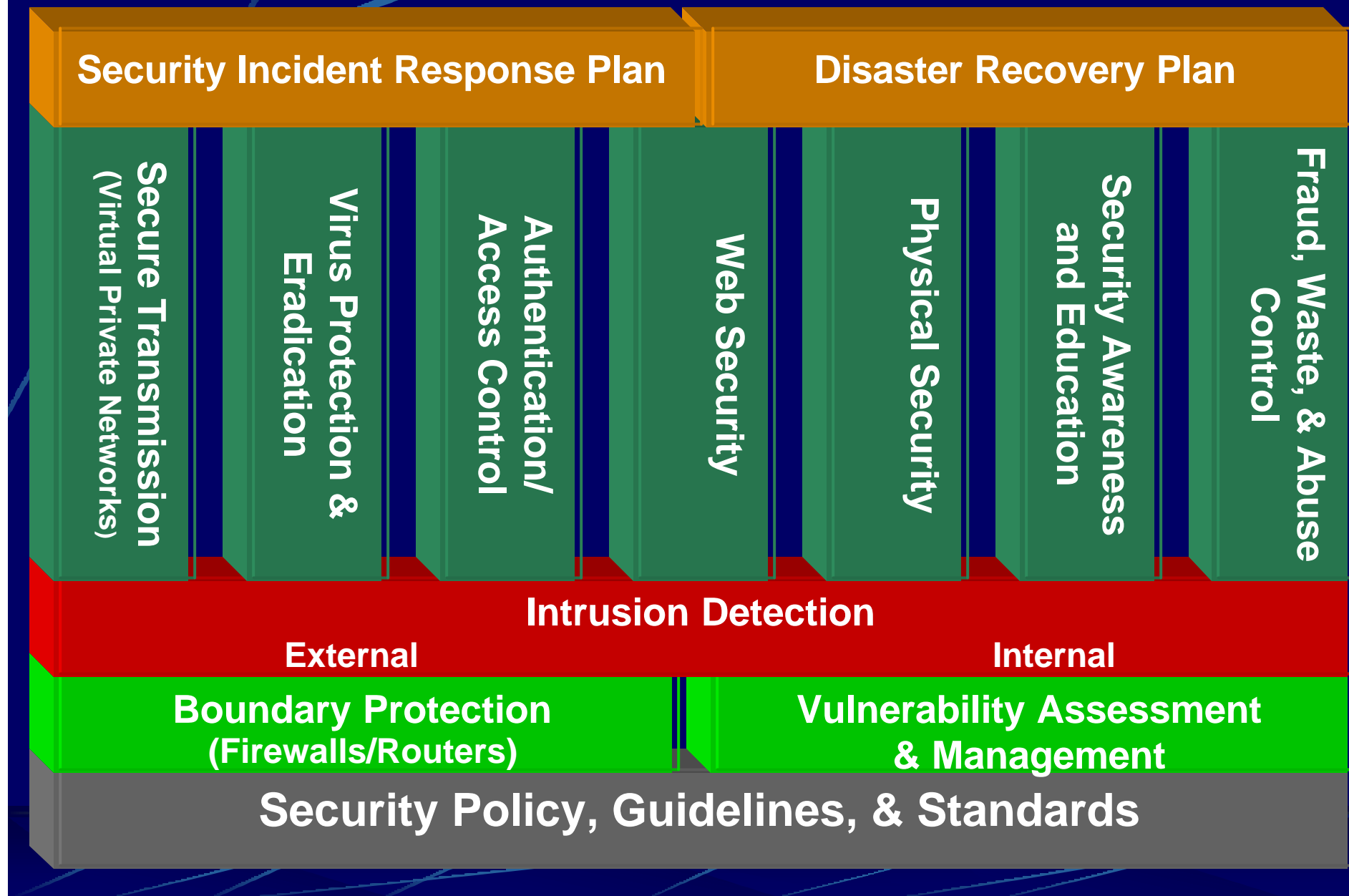


- Security Lifecycle



How are we moving from “philosophy” to “practice”....

Security Implementation Model



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Highlights (2001-2002)

- **Enterprise Anti-Virus Gateways**
 - 29,157 virus infections prevented in 7 weeks
- **Cyber Security News**
 - Periodic publication to increase security awareness
- **Disaster Recovery Plan**
 - First stage of full disaster recovery for critical WAN services
- **Managed Firewall Services**
 - Enterprise Firewalls – strong perimeter protection
 - Agency-level Firewalls – assisting with security expertise

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Highlights (2001-2002)

- **Network Intrusion Detection Systems**
 - Enterprise “burglar alarm” for critical WAN connections
 - Foundation for enterprise-wide monitoring & event correlation
- **Security Web Site & Alert System**
 - Increase threat and vulnerability awareness
- **Security Product Standards**
 - Critical to interoperability, lower TCO & enterprise “views”
 - Security Products Contract in place for public agencies
- **Virtual Private Network (VPN) Services**
 - Secure communications (encrypted/strong authentication) for all State agencies

Dept of Admin Network Security

Where Are We Headed?

- **Firewall/VPN Services**

- High Availability/Upgrades

- **Incident Response**

- Statewide capability

- **Intrusion Detection**

- Layered – internal & host

- **Vulnerability Assessment & Management Services**

- **Disaster Recovery**

- “Full-Scale” Plan & Testing

- **Security Awareness**

- Increased communication

- **Security Policies**

- Risk Management Procedures

- **Web Security**

- Application-level security